> 2-in-1 Position Sensor High Accuracy Mechanical Sensor 99600 Series

- > M8 threaded metal housing
- > Pin or ball actuator
- > No hysteresis

Selection Guide

- > Detects 2 positions
- > Special adaptations upon request



Pin Actuator

99600 Ball Actuator

Selection Guide			
Contact Configuration	Pin Actuator	Ball Actuator	
NC+NO	99600001	99600004	
NC	99600002	99600005	
NO	99600003	99600006	
	Pin Actuator	Ball Actuator	
General Characteristics			
Certification	CE CU UL in progress)		
Termination	Cable		
Cable length	2 m		
Cable material	PVC		
Actuator	Pin	Ball	
Form factor	M8		
Mechanical Characteristics			
Contact distance	NC+NO, 0.5 mm NC only, 0 mm NO only, 0.5 mm		
Operating Force max (OF)	Max 1 N to open NC contact Max 1.6 N to close NO contact		
Hysteresis	0 mm		
Repeatability	< 5 µm		
Pre-Travel	0 mm for NC contact 0.5 mm for NO contact		
Over-Travel	2 mm after NC opening	1.7 mm after NC opening	
Electrical Characteristics			
Max DC voltage	30 V		
Max DC Current	100 mA		
Environmental Characteristics			
Degree of Protection	IP67		
Temperature	-20 °C to +105 °C with PVC cable		
	(-40 °C to +130 °C) with silicone cable upon request		
Mechanical Life	10 000 000 cycles		





Connection



Sensor contact Cable option wire color Connector option pin number	
Common brown 1	
NC black 2	
NO blue 4	

Principles



*Contact distance can be customized upon request

The sensors are built with a NC and NO contact. There is no pre-travel of the pin plunger to open the NC contact.

The NO closes after a customized length of travel between 0.3 mm to 1.5 mm.

Special adaptations

Our dedicated design engineering experts have access to the the latest design tools and test facilities. Our DesignLab is ready to collaborate with you to adapt the product to provide the solution you need:

- \rightarrow Cable length 0.5 m, 1 m or 2 m
- > M8 and M12 threaded housing
- > Actuator Pin, Ball, Hard Metal Pin or Telescopic
- Silicone cable (-40 °C to +130 °C) upon request





About Microprecision Electronics SA

Microprecision Electronics SA is a Swiss manufacturer of electromechanical components for more than 60 years. It specialises in highly precise snap-action switches, sensors and custom-engineered solutions for industrial and challenging applications. Microprecision supplies to industrial and building automation, elevation systems, machinery, marine and medical industries, in applications where quality, precision and reliability are of utmost importance.

Microprecision Electronics is a company of Crouzet

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